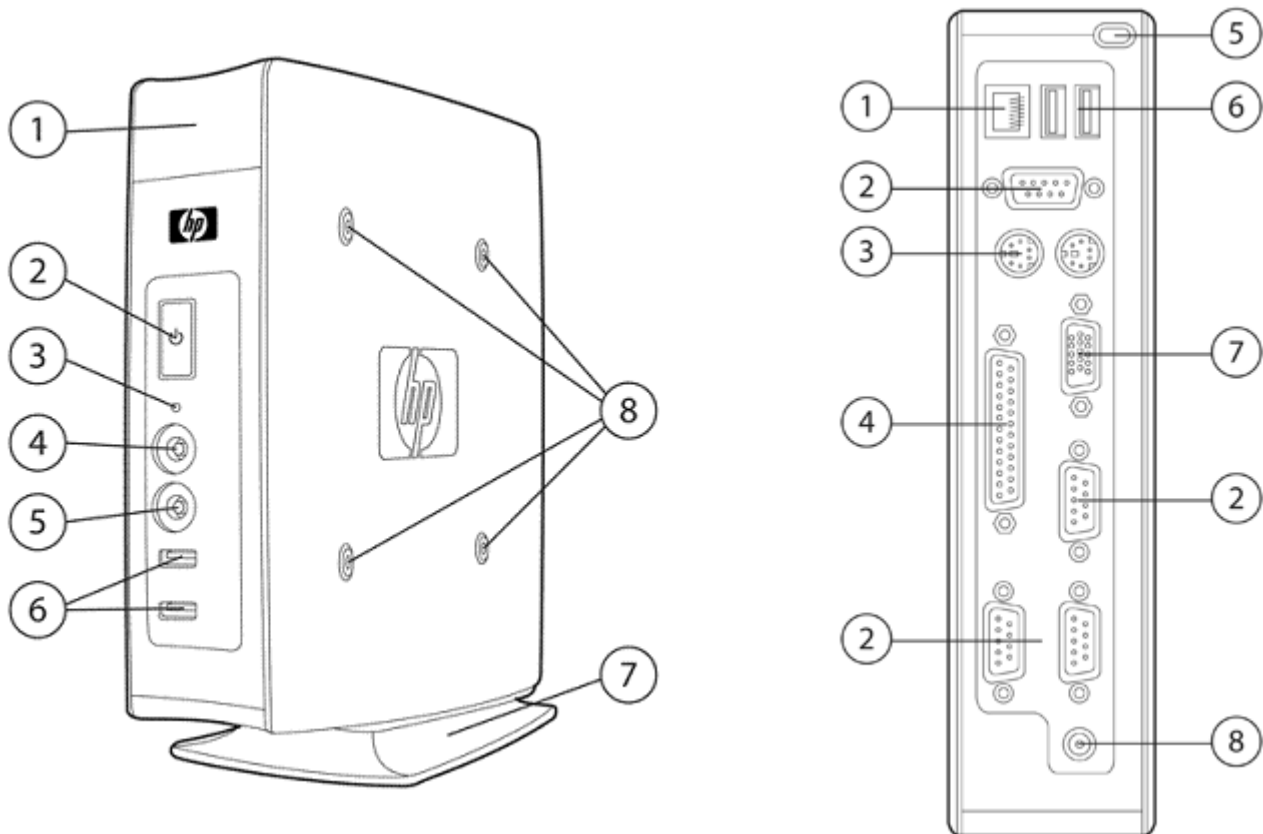


## Overview

### Introduction

The HP vc4820T Thin Client delivers great value with a familiar Windows experience at the right performance level. Microsoft Windows Embedded Standard operating system combined with a full-featured browser, HP Remote Graphics Software (RGS), HP Remote Desktop Protocol (RDP) Enhancements Software, Add/Remove Programs utility, Enhanced Write Filter, Symantec Endpoint Protection, terminal emulation, native single monitor and widescreen support make the vc4820T the optimum choice for business environments requiring a cost-effective thin client with flexibility and power. The vc4820T provides the greatest serial peripheral support within the HP thin client Windows product line.



Front

1. Secure USB compartment (2 USB connectors)
2. Power button with LED
3. Flash storage activity indicator
4. Audio connector (mic in)
5. Audio connector (headphone out)
6. USB connectors (2)
7. Vertical stand (removable)
8. VESA mounting points (4)

Back

1. 10/100/1000 Ethernet RJ-45 connector
2. Serial ports (4)
3. PS/2 connectors (2)
4. Parallel port
5. Cable lock slot
6. USB connectors (2)
7. VGA connector
8. +12V DC power input

## Overview

### At A Glance

- Latest Microsoft Windows Embedded Standard operating system offers the latest full Internet Explorer Web browser, latest software and access local applications
- VIA Eden 1 GHz processor for great performance
- 2 GB Flash memory provides ample storage for applications and drivers
- 1 GB System memory (64 MB reserved for video)
- Highly extensible Windows Embedded Standard OS with support for local applications
- Enhanced Write Filter and Symantec Endpoint Protection Agent for enhanced data security
- HP Device Manager, lets you remotely manage devices from a central location.
- Altiris Deployment Solution helps reduce the costs of deploying, updating, and maintaining your thin clients. A free client license is included with each HP thin client.
- Exclusive HP ThinState Tools offers in-box, easy-to-use image deployment and recovery tools.
- Extensive connectivity
  - Includes four serial, one parallel, two PS/2, and six USB 2.0 ports (two in back, two in front, and two in secure USB compartment)
- MIC in and Audio out ports in front
- HP Total Care Warranty and Services: limited three-year hardware warranty in most regions. HP Care Pack Services extend service contracts beyond your standard warranties. For more details visit: <http://www.hp.com/go/lookuptool>.

## Models

NW793AA#AB2

Model Name	HP vc4820T Thin Client
Processor	VIA Eden 1 GHz
Flash	2 GB
System Memory	1 GB (64 MB reserved for video)
Operating System	Microsoft Windows Embedded Standard
Keyboard	PS/2
Mouse	PS/2

## Options

Accessories	<b>NOTE:</b> Options are available as separate purchase	<b>Part Number</b>
	HP Quick Release Kit	EM870AA
	HP Integrated Work Center Stand	GN783AA
	50 Watt External Power Supply	FJ851AA
Touch Screens	ELO Touch 1529L Flat Panel <sup>1</sup>	E926109
	HP L5006tm LCD Touchscreen (available in selected countries)	RB146AA
Security	HP USB Smartcard Keyboard	ED707AA
	SCM USB Smart Card Reader SCR331 <sup>1</sup>	904622
	HP/Kensington Cable Lock	PC766A
Input Devices	HP PS/2 Standard Keyboard	DT527A
	HP USB Standard Keyboard	DT528A
	HP USB Smartcard Keyboard	ED707AA
	HP PS/2 2-Button Optical Scroll Mouse	EY703AA
	HP USB 2-Button Optical Scroll Mouse	DC172B
Storage	Apacer 4GB AH522 USB 2.0 Flash Drive (DOK) <sup>1</sup>	91.HDE2S.HP00C
	External USB 2.0 Multibay II Cradle	PA509A
Care Pack Services	9x5 Next-Business-Day On-Site Coverage - 3 Years	331655-001; U4849E

**NOTE:** Although third-party products may work effectively on HP thin clients, these non-HP products are provided "AS IS." HP does not support or warrant third-party products, including the interoperability of such products with HP thin clients. However, third-party manufacturers and vendors may provide their own warranties and support directly to you. Please contact the manufacturers or vendors for hardware or software support on their products.

<sup>1</sup> This is a third party option. Option, warranty and support available directly from third party vendor.

## Technical Specifications

Processor	VIA Eden 1 GHz			
Chipsets	VIA VX800 north/south bridge unified chip			
Memory	Flash	2 GB		
	System Memory	1 GB (64 MB reserved for video)		
Graphics	VIA Chrome9 HC3 DX9 Graphics			
	Mode	Refresh Rates (Single Monitor)	Color Depth	
	640 x 480	60, 72, 75, 85 Hz	8, 16, 32 bit	
	800 x 600	60, 70, 72, 75, 85 Hz	8, 16, 32 bit	
	848 x 480	60, 75, 85 Hz	8, 16, 32 bit	
	1024 x 480	60 Hz	8, 16, 32 bit	
	1024 x 768	60, 70, 72, 75, 85 Hz	8, 16, 32 bit	
	1280 x 720	60, 75, 85 Hz	8, 16, 32 bit	
	1280 x 768	60 Hz	8, 16, 32 bit	
	1280 x 1024	60, 70, 75, 85 Hz	8, 16, 32 bit	
	1360 x 768	60 Hz	8, 16, 32 bit	
	1368 x 768	60, 75, 85 Hz	8, 16, 32 bit	
	1400 x 1050	60 Hz	8, 16, 32 bit	
	1440 x 900	60, 75, 85 Hz	8, 16, 32 bit	
	1600 x 1200	60, 75, 85 Hz	8, 16, 32 bit	
	1680 x 1050	60, 75 Hz	8, 16, 32 bit	
	1920 x 1080	60, 75 Hz	8, 16, 32 bit	
	1920 x 1200	60, 75, 85 Hz	8, 16, 32 bit	
	<b>NOTE:</b> The table represents a sample of possible modes that this controller is capable of displaying but various factors such as the capability and EDID info returned by the attached monitor may limit the availability of modes, color depth, and or refresh rate.			
	Input/Output/ Peripheral Support	Keyboard	PS/2	
Mouse		PS/2		
Printer		Local and/or network printers (RDP, ICA, LPD)		
Video		VGA-type video output (DB-15)		
Audio	Output	Internal amplified speaker		
		1/8-inch mini-jack, 24-bit stereo, 192-kHz sample rate		
	Input	1/8-inch microphone mini-jack, 20-bit stereo, 96-kHz sample rate		
Hardware Security	Security lock slot (cable lock sold separately)			
	Secure USB compartment with 2 USB 2.0 ports			
Networking	10/100/1000 Ethernet (RJ-45)			
	TCP/IP with DNS and DHCP			
	Point-to-Point Protocol (PPP), Point-to-Point over Ethernet (PPPoE),			
	Point-to-Point Tunneling Protocol (PPTP), Layer-2 Tunneling Protocol (L2TP), Wake on LAN (WOL), PXE			
	Server Network Time Protocol (SNTP)			
	Simple Network Management Protocol (SNMP)			

## Technical Specifications

<b>I/O ports and connectors</b>	6 USB 2.0 ports , 4 Serial, 1 Parallel, 2 PS/2, RJ45	
<b>Resident Operating System</b>	Microsoft Windows Embedded Standard	
<b>Languages (MUI)</b>	Simplified Chinese	
<b>Server OS Compatibility</b>	Citrix XenApp 4.5 Citrix XenDesktop 2.x and 3 Citrix Presentation Server 4.0) Windows Server 2008 Terminal Services Windows 2000/2003 Server families, Windows 2000/2003 Server Terminal Services	
<b>Software Included</b>	<b>Operating System/ Protocols/Components</b>	Windows Embedded Standard Citrix ICA 11.0 (XenApp Plugin for Hosted Apps 11.0) Microsoft RDP 6.1 Microsoft Internet Explorer 7 Windows Media Player 11 HP TeemTalk Terminal Emulator 7.0 Citrix ICA 11.1 (Desktop Receiver 11.1) available as an add-on
	<b>Security</b>	Enhanced Write Filter Symantec Endpoint Protection
	<b>Session Allocation Managers/Session Brokers</b>	HP Session Allocation Manager (SAM) 2.3 Citrix Desktop Delivery Controller enabled through web browser VMware View Manager 3.0 (previously known as VDM broker)
	<b>Multimedia and USBR solutions</b>	HP Remote Graphics Software Receiver 5.2 for VMware View and Microsoft Terminal Services HP Remote Desktop Protocol Multimedia and USB Enhancement software for VMWare View Citrix HD-X support for XenApp Citrix HD-X support for XenDesktop
	<b>Management</b>	HP Device Manager agent 4.0 Altiris Deployment Solution (full client license). Management console available as free download from Altiris at: <a href="http://www.altiris.com/hptc">www.altiris.com/hptc</a> HP ThinState for rapid deployment HP Client Automation RALF agent
<b>Emulations</b>	TeemTalk Terminal Emulator supports these emulations. SSH is supported in terminal emulation mode allowing users to secure their connections to the host.	
	<b>Emulation</b>	<b>Terminal ID</b>
	ADDS Viewpoint A2	ADDS-A2
	AIXTerm	aixterm
	ANSI BBS	ansi
	AT&T AT 386	at386-m
	AT&T Dataspeed 4410	att4410
	Bull BQ3107	VIP7700, VIP7760
	Data General Dasher 410/412	dg410
	Hewlett Packard HP700-92/96	2392A, 2622A, 70092, 70094, 70096
	Hazeltine 1500	HZ1500

## Technical Specifications

IBM 3151	11, 11-28, 31, 31-28
IBM 3270	3278-2 (24x80 Mono), 3278-3 (32x80 Mono), 3278-4 (43x80 Mono), 3278-5 (27x132 Mono), 3278-2-E (24x80 Color), 3278-3-E (32x80 Color), 3278-4-E (43x80 Color), 3278-5-E (27x132 Color), 3279-2 (24x80 Color), 3279-3 (32x80 Color), 3279-4 (43x80 Color), 3279-5 (27x132 Color), 3287-1 (Printer)
IBM 5250	3179-2 (24x80 Color), 3180-2 (27x132 Mono Msg), 3196-A1 (24x80 Mono), 3477-FC (27x132 Color Msg), 3477-FG (27x132 Mono Msg), 3486-BA (24x80 Mono), 3487-HA (27x132 Mono), 3487-HC (27x132 Color), 3812-1 (Printer), 5251-11 (24x80 Mono), 5291-1 (24x80 Mono), 5292-2 (24x80 Color), 5553-B01 (DBCS Printer), 5555-B01 (DBCS 24x80 Mono), 5555-C01 (DBCS 24x80 Color)
McDonnell Douglas Prism- tty 8, Prism-12	
McDonnell Douglas Prism- tty 9	
Prime PT250	pt250
SCO Console	ansi
Siemens 97801	97801
Stratus V102	v102
Tandem TA6526, TA6530	tn6530-8
Televideo 910	TVI910
Televideo 920	TVI920
Televideo 925	TVI925
Televideo 950	TVI950
Televideo 955	TVI955
Unisys T27	UNISYS-TD830
Viewdata 40	VIEWDATA - 40
Viewdata 80	VIEWDATA - 80
Viewdata Split	VIEWDATA - SPLIT

## Technical Specifications

	DEC VT PCTerm	VT-PCTERM
	DEC VT100	m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320, vt340, vt420, vt510, vt520, vt525
	DEC VT100+	VT100+
	DEC VT500 7-bit	m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320, vt340, vt420, vt510, vt520, vt525
	DEC VT500 8-bit	m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320, vt340, vt420, vt510, vt520, vt525
	DEC VT 52	m2200, vt100, vt101, vt102, vt125, vt131, vt132, vt220, vt240, vt320, vt340, vt420, vt510, vt520, vt525
	VT HP220	vt220
	VT UTF8	VT-UTF8
	Wyse WY370	WYSE-370
	Wyse WY50	WYSE-50
	Wyse WY50+	WYSE-50
	Wyse WY60	WYSE-60
	Wyse PCTerm	WYSE-PCTERM
Dimensions H x W x D	Without stand	8.25 x 2.05 x 8.5 in (209.55 x 52.07 x 215.90 mm)
	With stand	8.65 x 2.05 x 8.5 in (219.70 x 52.07 x 215.90 mm)
Weight (approximate)	With stand	3.40 lbs (1.54 kg)
Power*	Operating voltage range	100-240 VAC
	Rated line frequency	50-60 Hz
	Power output (max)	50W
	Rated output current (max)	4.16A
	Input voltage	+12V DC
	Power consumption	Idle: 14.0 W
	* The actual power consumption at your location could vary and is dependent on many factors including but not limited to software load on the thin client, attached peripherals, and environmental factors.	
Environmental	Operating temperature range	50° to 95° F (10° to 35° C)
	Non-operating temperature range	-22° to 140° F (-30 to 60° C)
	Humidity (non-condensing)	10% to 90% operating/5% to 95% non-operating
Regulatory Compliances	Product Safety	China Compulsory Certification (CCC Mark) International: IEC60950-1 and all National Deviations for China Limited Power Source Certified (LPSC)
	RF Interference	FCC Class B
Warranty	Three-year limited hardware warranty. <b>NOTE:</b> Certain restrictions apply. Consult the HP Customer Support Center for details.	
Environment-friendly Products and Approach	RoHS Compliance	Hewlett-Packard is committed to compliance with all applicable environmental laws and regulations, including the European Union Restriction of Hazardous Substances (RoHS) Directive. HP's goal is to exceed



## Technical Specifications

### Material Usage

compliance obligations by meeting the requirements of the RoHS Directive on a worldwide basis. From July 1, 2006, RoHS substances will be virtually eliminated (virtually = to levels below legal limits) for all HP electronic products subject to the RoHS Directive, except where it is widely recognized that there is no technically feasible alternative (as indicated by an exemption under the EU RoHS Directive).

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at [http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\\_specifications.html](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

### Packaging

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

## Technical Specifications

### End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

### Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:  
[link to new HP white paper now in progress]

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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